



UNIVERSIDAD PRIVADA DEL NORTE

FACULTAD DE INGIENERIA

CARRERA:

INGENIERÍA DE SISTEMAS COMPUTACIONALES

CURSO:

TÉCNICAS DE PROGRAMACION ORIENTADA A OBJETOS

DOCENTE:

MARTIN EDUARDO TORREZ RODRIGUEZ

TEMA:

INTEGRANTES:

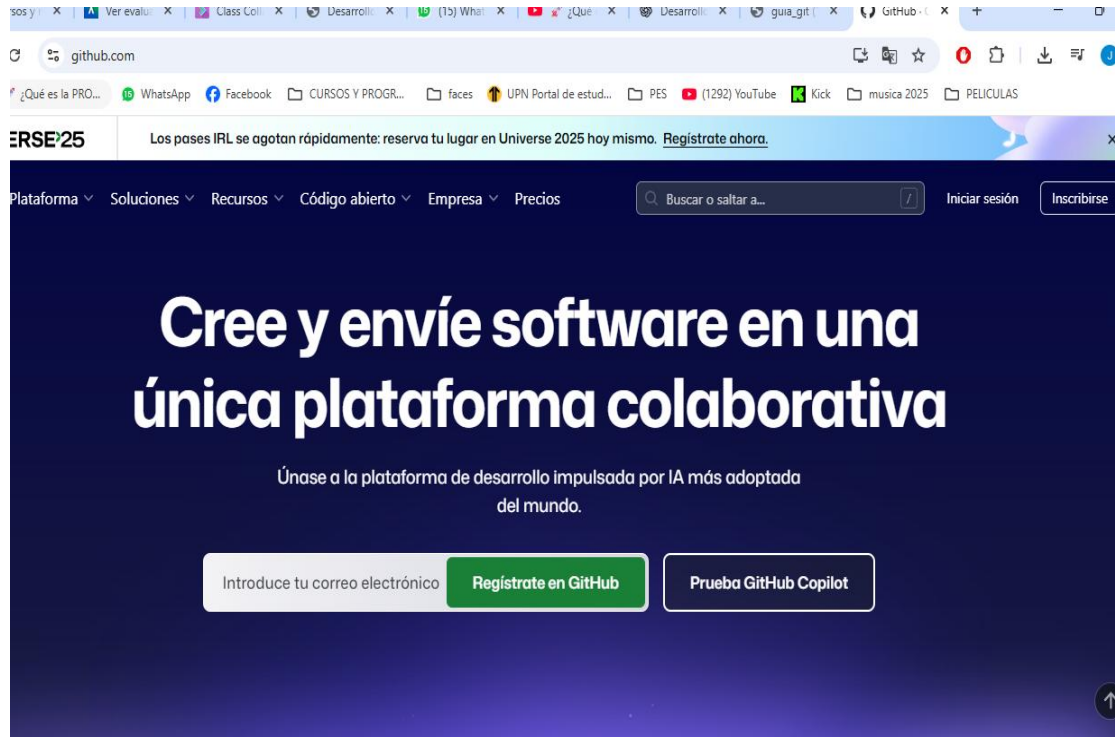
- JORDY ANTONY MACHADO MONTERO N00354998

2025

Guía de primeros pasos con Git

- Creación de cuenta en GitHub

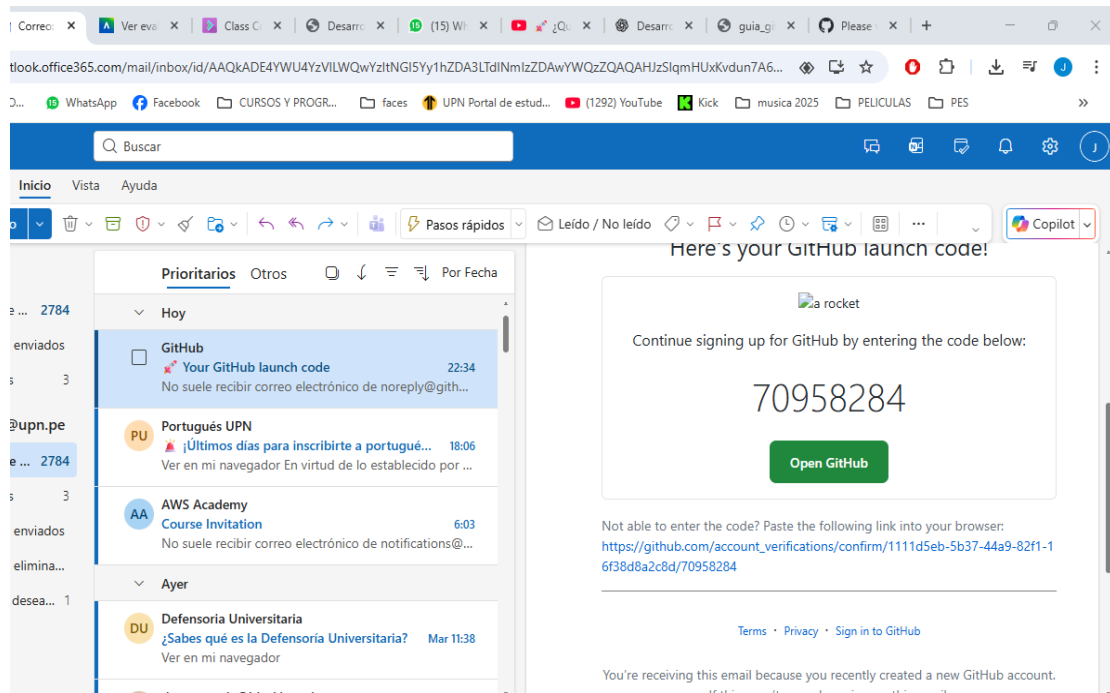
Nos dirigimos a la web oficial de GitHub



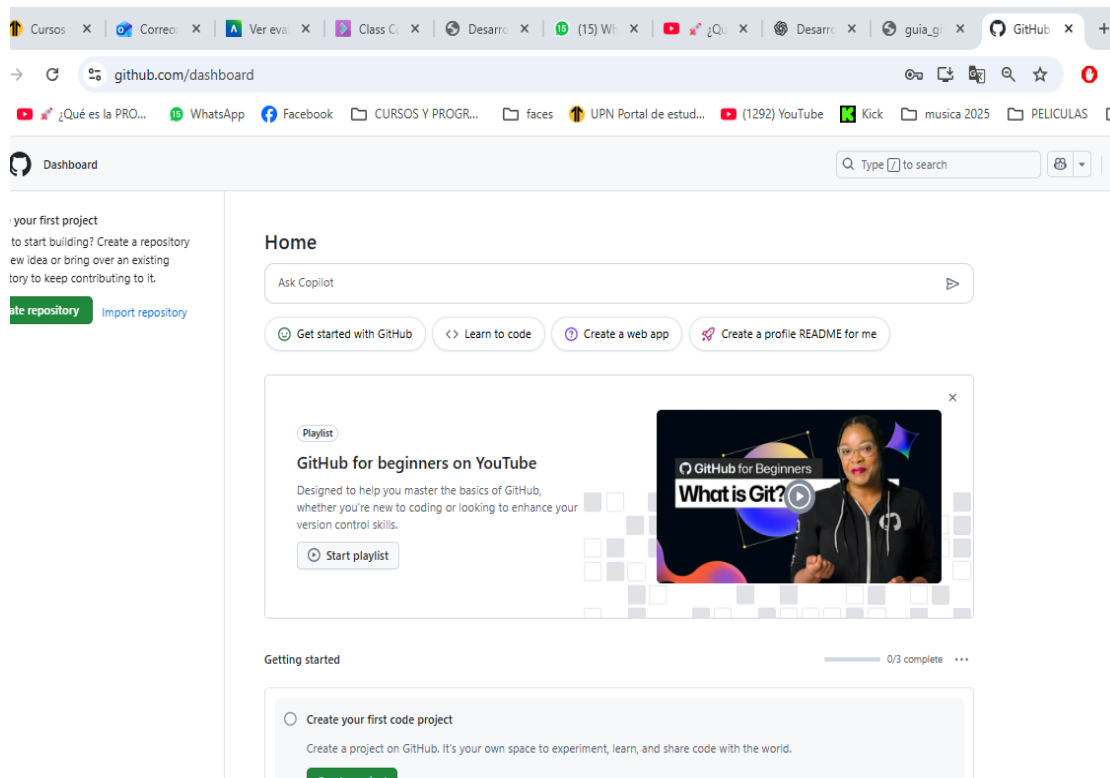
Al hacer click en sing up, podremos completar nuestros datos. Al finalizar hacer click en create account >

A screenshot of the GitHub registration page. On the left, a dark panel with the text 'Crea tu cuenta gratis' and 'Explora las características principales de GitHub para individuos y organizaciones.' is visible. On the right, the 'Regístrate en GitHub' form is shown. It includes options to 'Continuar con Google' or 'Continuar con Apple', followed by input fields for 'Correo electrónico', 'Contraseña', and 'Nombre de usuario'. A dropdown menu for 'Su país/región' is set to 'Perú'. At the bottom, there's a checkbox for 'Preferencias de correo electrónico'.

Nos pedirá verificar en el correo electrónico

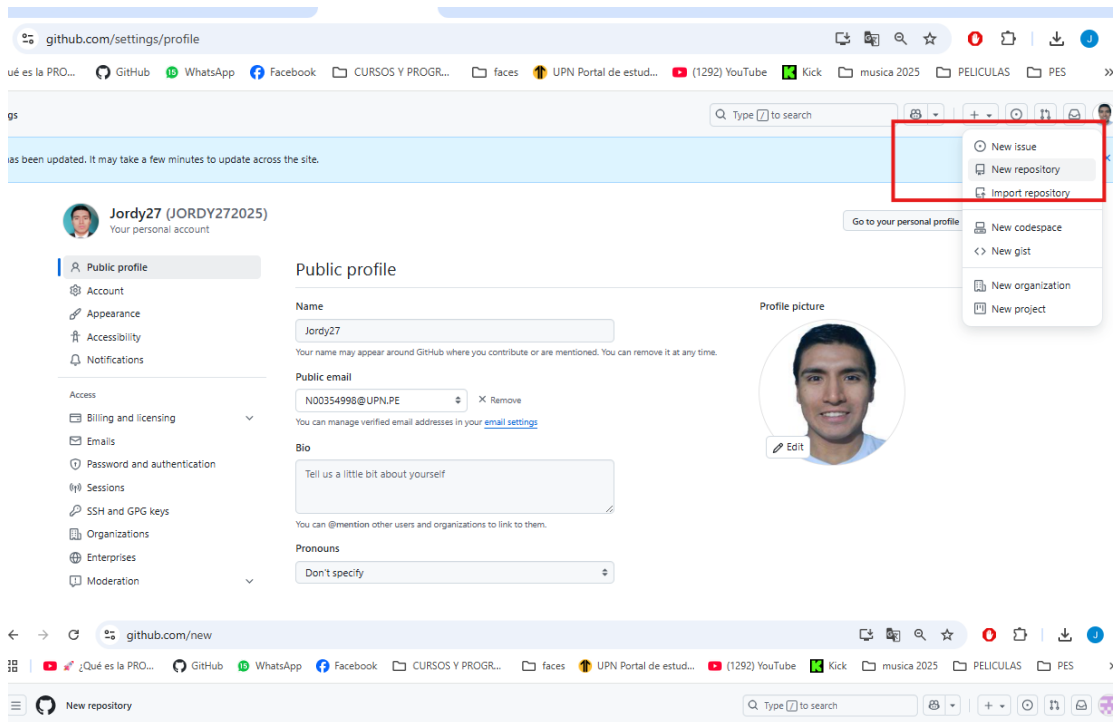


Luego de culminar la verificación, ya podremos acceder a nuestro github.



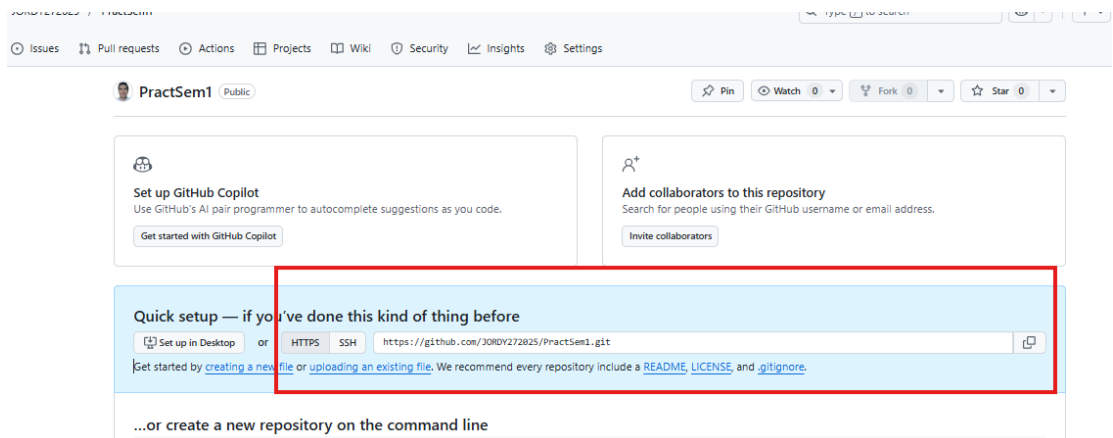
GitHub: <https://github.com/JORDY272025>

- **Crear un repositorio local**

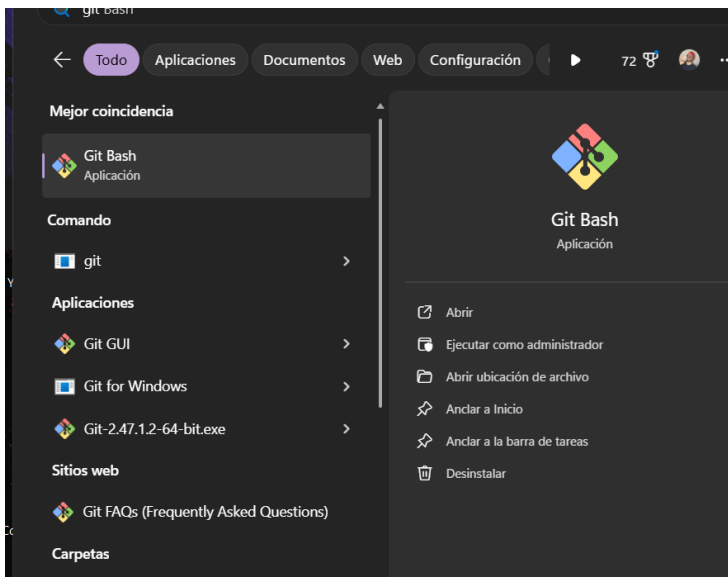


- **Clonar Repositorio de GitHub en maquina Local**

Copiar dirección del Repositorio



Instalar o tener instalado Git Bash



- Configurar tu sesión de GitHub previamente para que Git sepa de donde viene el repositorio.

```
jordy@DESKTOP-V2R04FK MINGW64 ~/Documents
$ cd Github

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github
$ git config user.name
JORDY272025

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github
$ git config user.email
N00354998@UPN.PE

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github
$ git clone https://github.com/JORDY272025/PractSem1.git
Cloning into 'PractSem1'...
warning: You appear to have cloned an empty repository.

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github
$ .....
```

- Pegar donde pone “git clone <link del repositorio que copiaste>”

```
jordy@DESKTOP-V2R04FK MINGW64 ~/Documents
$ cd Github

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github
$ git config user.name
JORDY272025

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github
$ git config user.email
N00354998@UPN.PE

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github
$ git clone https://github.com/JORDY272025/PractSem1.git
Cloning into 'PractSem1'...
warning: You appear to have cloned an empty repository.

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github
$ .....
```

Cree un archivo llamado "mi_archivo.txt" para que se detecten los cambios ya que inicialmente mi repositorio de GitHub estaba vacío.

```
MINGW64:/c/Users/2 SOOO/Documents/Github/PractSem1
jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github
$ git config user.email
N00354998@UPN.PE

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github
$ git clone https://github.com/JORDY272025/PractSem1.git
Cloning into 'PractSem1'...
warning: You appear to have cloned an empty repository.

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github
$ cd PractSem1

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (main)
$ ls

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (main)
$ touch mi_archivo.txt

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (main)
$ ls
mi_archivo.txt

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (main)
$
```

- Realizar tu primer commit en referencia a los cambios

```
MINGW64:/c/Users/2 SOOO/Documents/Github/PractSem1
jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (main)
$ git status
On branch main

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    mi_archivo.txt

nothing added to commit but untracked files present (use "git add" to track)

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (main)
$ git add .

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (main)
$ git commit -m "Mi primer Commit"
[main (root-commit) 180d1a5] Mi primer Commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 mi_archivo.txt

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (main)
$ git push
```

- Ver el historial de commits , Crear una Rama y cambiar a esa Rama

```
MINGW64/c/Users/2 SOOO/Documents/Github/PractSem1
jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (main)
$
jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (main)
$ git log
commit 18bd1a5fd54c07e95962ca2a3c5225546e9c5837 (HEAD -> main)
Author: JORDY272025 <N00354998@UPN.PE>
Date: Thu Oct 23 18:07:28 2025 -0500

    Mi primer Commit

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (main)
$ git branch rama

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (main)
$ git checkout
Your branch is based on 'origin/main', but the upstream is gone.
(use "git branch --unset-upstream" to fixup)

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (main)
```

- Finalmente Crear, cambiar entre Ramas y Fusionar

```
jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (main)
$ git checkout
Your branch is up to date with 'origin/main'.

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (main)
$ git checkout rama
Switched to branch 'rama'

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (rama)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (main)
$ git pull
Already up to date.

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (main)
$ git merge rama
Already up to date.

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (main)
$ git push
Everything up-to-date

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (main)
```

- Uso de git merge para combianr ramas.

```
jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (mejoras-codigo)
$ git branch -a
  main
* mejoras-codigo
  rama
remotes/origin/HEAD -> origin/main
remotes/origin/main

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (mejoras-codigo)
$ git log --oneline --graph --all
* 6862cec (main) Merge branch 'mejoras-codigo'
| \
| * 71b9e26 (HEAD -> mejoras-codigo) Pequeñas mejoras en el código para práctica
* | a379a4b Guardar cambios antes de cambiar a main
|/
* 18bd1a5 (origin/main, origin/HEAD, rama) Mi primer Commit

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (mejoras-codigo)
$ git status
On branch mejoras-codigo
nothing to commit, working tree clean

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (mejoras-codigo)
$ |
```

- Resolución de conflictos.

```
jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (mejoras-codigo)
$ git log --oneline -5
71b9e26 (HEAD -> mejoras-codigo) Pequeñas mejoras en el código para práctica
18bd1a5 (origin/main, origin/HEAD, rama) Mi primer Commit

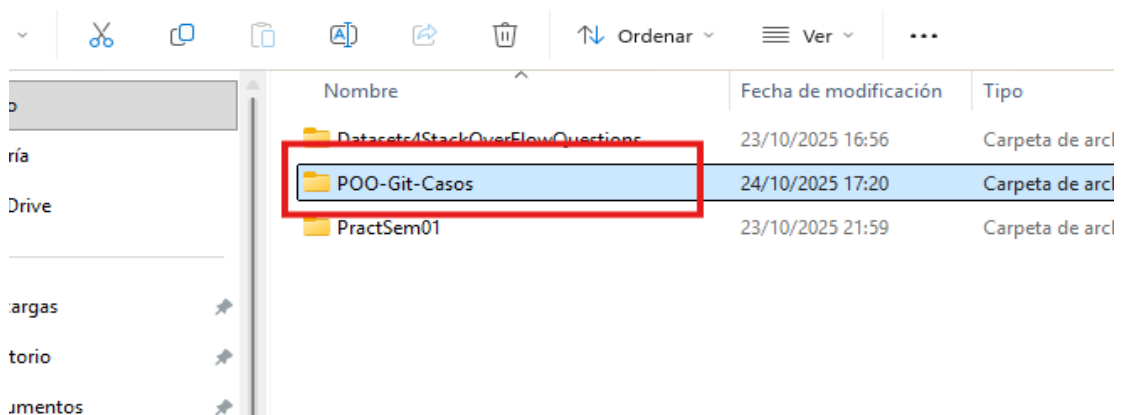
jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (mejoras-codigo)
$ git diff --name-status HEAD~1 HEAD
A      PractSem1
D      mi_archivo.txt
```

- Colaboración en GitHub.

```
jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (mejoras-codigo)
$ git branch -r
  origin/HEAD -> origin/main
  origin/main

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/Github/PractSem1 (mejoras-codigo)
$ git remote -v
origin  https://github.com/JORDY272025/PractSem1.git (fetch)
origin  https://github.com/JORDY272025/PractSem1.git (push)
```


- Se realizó cambio de nombre de la carpeta para respetar la estructura sugerida



- Casos y guía git

```

MINGW64:/c:/Users/2 SOOO/Documents/GitHub/PractSem1

jordy@DESKTOP-V2R04FK MINGW64 /
$ cd "C:/Users/2 SOOO/Documents/GitHub/PractSem1"

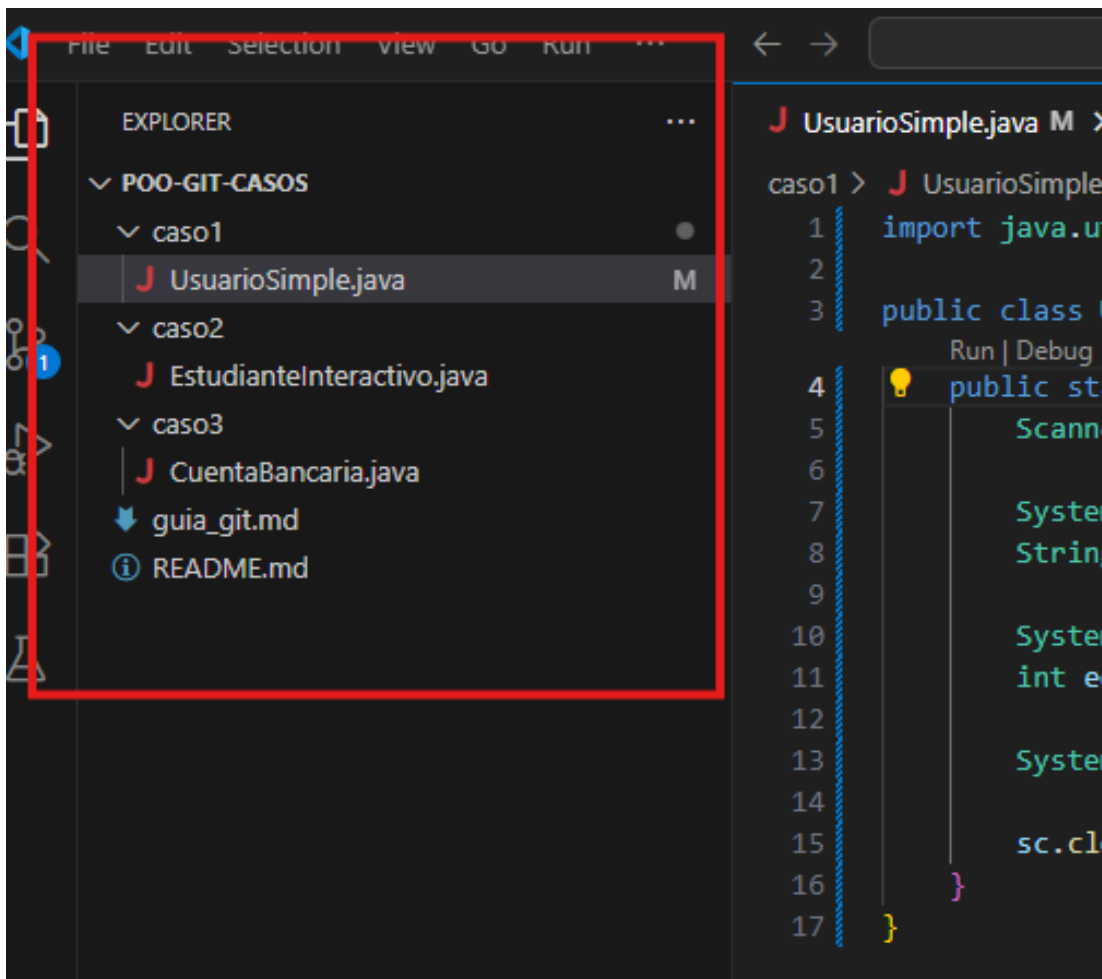
jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/GitHub/PractSem1 (main)
$ code .

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/GitHub/PractSem1 (main)
$ git add .
git commit -m "Agregar casos y guía de Git"
git push origin main
[main d5e891e] Agregar casos y guía de Git
6 files changed, 1 deletion(-)
delete mode 160000 PractSem1
create mode 100644 caso 1/UsuarioSimple.java
create mode 100644 caso 2/EstudianteInteractivo.java
create mode 100644 caso 3/CuentaBancaria.java
create mode 100644 guia_git.md
create mode 100644 mi_archivo.txt
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 16 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (6/6), 551 bytes | 551.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/JORDY272025/PractSem1.git
6862cec..d5e891e main -> main

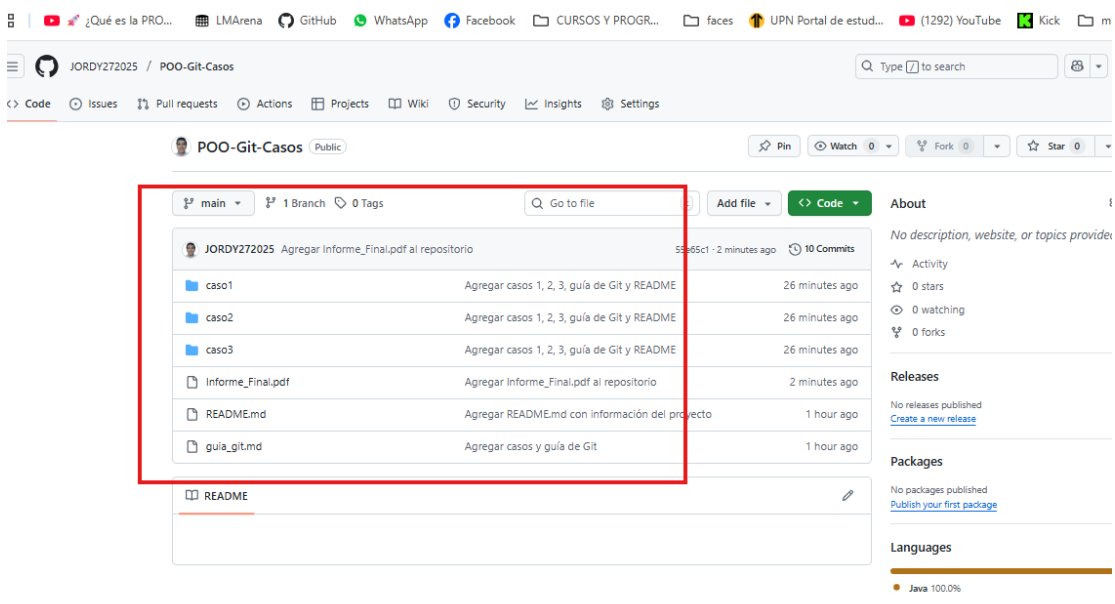
jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/GitHub/PractSem1 (main)
$ |

```

- Estructura sugerida del repositorio

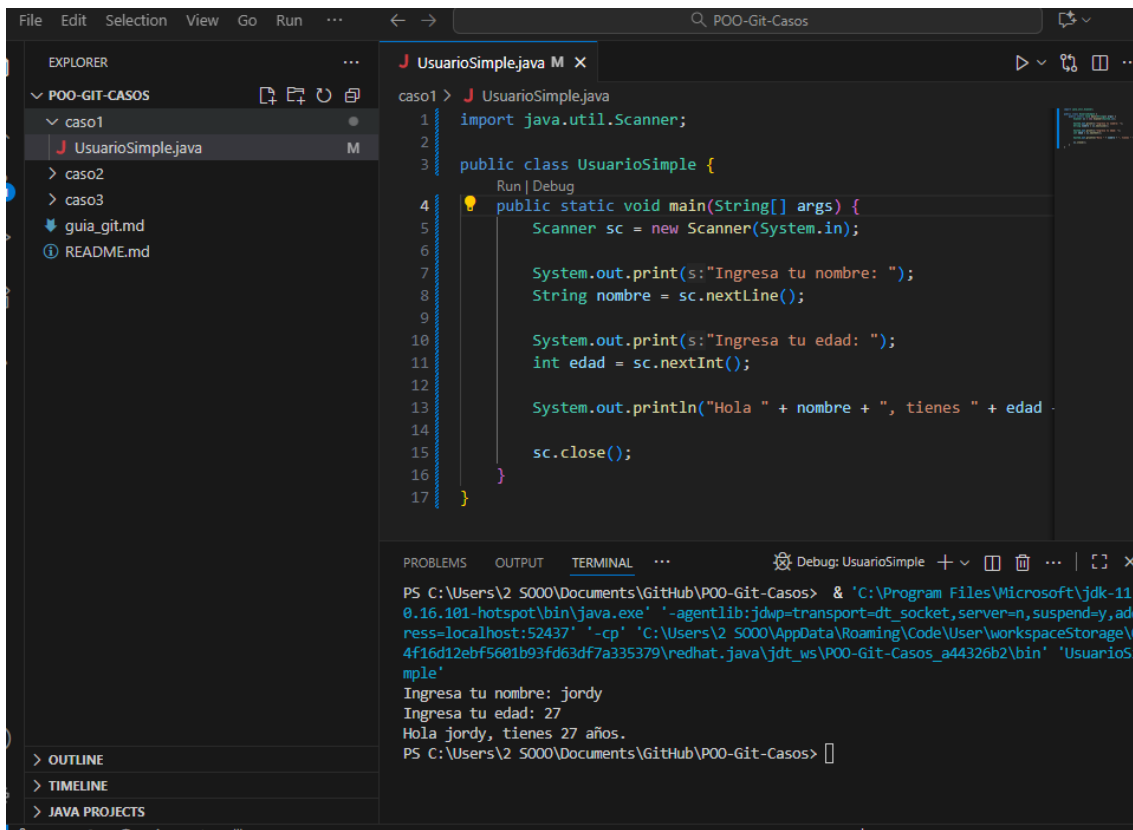


- GitHub Remoto



Repositorio: <https://github.com/JORDY272025/POO-Git-Casos>

- Caso1:



```

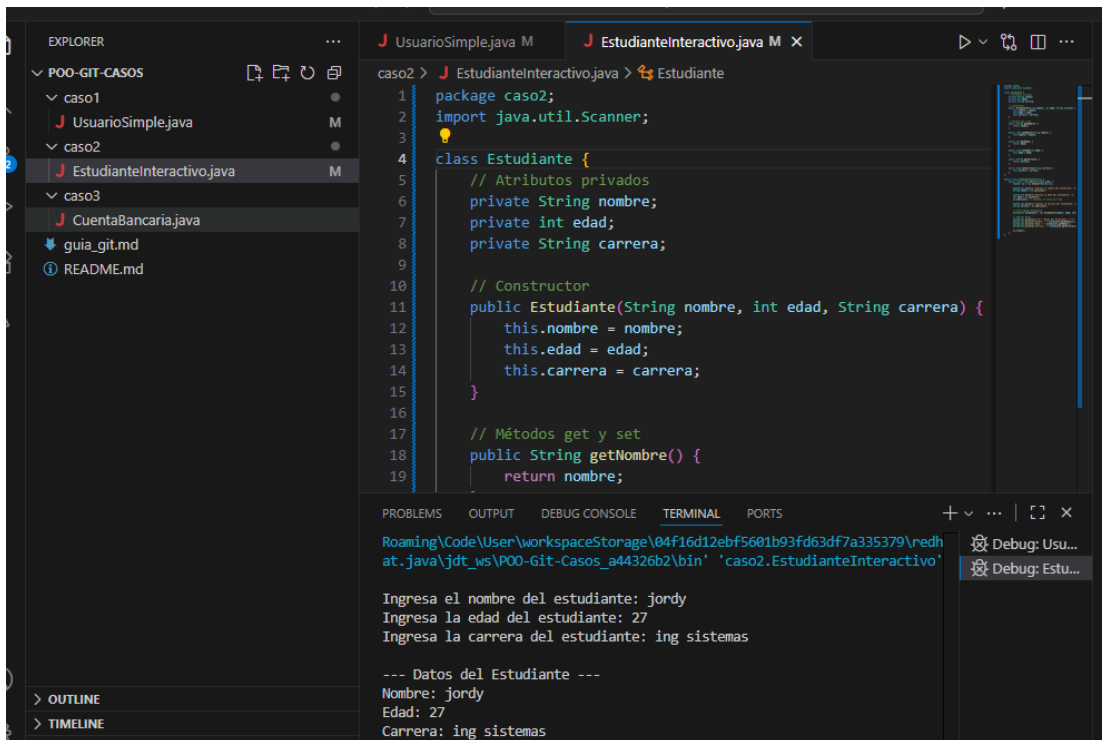
File Edit Selection View Go Run ...
POO-GIT-CASOS
  caso1
    UsuarioSimple.java
  caso2
  caso3
  guia_git.md
  README.md

UsuarioSimple.java
1 import java.util.Scanner;
2
3 public class UsuarioSimple {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6
7         System.out.print(s:"Ingresa tu nombre: ");
8         String nombre = sc.nextLine();
9
10        System.out.print(s:"Ingresa tu edad: ");
11        int edad = sc.nextInt();
12
13        System.out.println("Hola " + nombre + ", tienes " + edad);
14
15        sc.close();
16    }
17 }

PROBLEMS OUTPUT TERMINAL ...
Debug: UsuarioSimple
PS C:\Users\2 5000\Documents\GitHub\POO-Git-Casos> & 'C:\Program Files\Microsoft\jdk-11.0.16-hotspot\bin\java.exe' -agentlib:jdwp=transport=dt_socket,server=n,suspend=y,address=localhost:52437' -cp 'C:\Users\2 5000\AppData\Roaming\Code\User\workspaceStorage\04f16d12ebf5601b93fd63df7a335379\redhat.java\jdt_ws\POO-Git-Casos_a44326b2\bin' 'UsuarioSimple'
Ingresa tu nombre: jordy
Ingresa tu edad: 27
Hola jordy, tienes 27 años.
PS C:\Users\2 5000\Documents\GitHub\POO-Git-Casos>

```

- Caso 2:



```

EXPLORER
POO-GIT-CASOS
  caso1
    UsuarioSimple.java
  caso2
    EstudianteInteractivo.java
  caso3
    CuentaBancaria.java
  guia_git.md
  README.md

EstudianteInteractivo.java
1 package caso2;
2 import java.util.Scanner;
3
4 class Estudiante {
5     // Atributos privados
6     private String nombre;
7     private int edad;
8     private String carrera;
9
10    // Constructor
11    public Estudiante(String nombre, int edad, String carrera) {
12        this.nombre = nombre;
13        this.edad = edad;
14        this.carrera = carrera;
15    }
16
17    // Métodos get y set
18    public String getNombre() {
19        return nombre;
20    }
21 }

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Debug: Usu...
Debug: Estu...
Roaming\Code\User\workspaceStorage\04f16d12ebf5601b93fd63df7a335379\redhat.java\jdt_ws\POO-Git-Casos_a44326b2\bin' 'caso2.EstudianteInteractivo'

Ingresa el nombre del estudiante: jordy
Ingresa la edad del estudiante: 27
Ingresa la carrera del estudiante: ing sistemas

--- Datos del Estudiante ---
Nombre: jordy
Edad: 27
Carrera: ing sistemas

```

- Caso 3:

The screenshot shows an IDE with the Explorer panel on the left displaying a project structure for 'POO-GIT-CASOS'. The 'caso3' folder contains 'CuentaBancaria.java' (marked as 'M' for modified) and 'CuentaBancariaInteractiva.java' (marked as 'U' for updated). The main editor shows the code for 'CuentaBancaria.java' in the 'caso3' package. The code defines a 'CuentaBancaria' class with private attributes 'titular' (String) and 'saldo' (double). It includes a constructor, getters, setters, and methods for depositing and withdrawing money. The terminal at the bottom shows the output of the program, indicating a final balance of 3050.0.

```

1 package caso3;
2 class CuentaBancaria {
3     // Atributos privados
4     private String titular;
5     private double saldo;
6
7     // Constructor
8     public CuentaBancaria(String titular, double saldoInicial) {
9         this.titular = titular;
10        this.saldo = saldoInicial;
11    }
12    // Métodos get y set
13    public String getTitular() {
14        return titular;
15    }
16    public void setTitular(String titular) {
17        this.titular = titular;
18    }
19    public double getSaldo() {
20        return saldo;
21    }
22    // Métodos para operaciones
23    public void depositar(double cantidad) {
24        if (cantidad > 0) {
25            saldo += cantidad;
26            System.out.println("Depósito exitoso: S/" + cantidad);
27        } else {
28            System.out.println("Cantidad inválida para depositar.");
29        }
30    }
31
32    public void retirar(double cantidad) {
33        if (cantidad > 0) {
34            saldo -= cantidad;
35            System.out.println("Retiro exitoso: S/" + cantidad);
36        } else {
37            System.out.println("Cantidad inválida para retirar.");
38        }
39    }
40 }

```

Saldo final: 3050.0

- Se creó la clase

CuentaBancariaInteractiva.java

The screenshot shows the IDE with the 'CuentaBancariaInteractiva.java' file open. The code defines a public class 'CuentaBancariaInteractiva' with a 'main' method that uses a 'Scanner' to interact with the user. The terminal output shows the program running, prompting the user for the account holder's name, initial balance, and deposit/withdrawal amounts. The final state of the account is displayed.

```

1 package caso3;
2 import java.util.Scanner;
3
4 public class CuentaBancariaInteractiva {
5     public static void main(String[] args) {
6         Scanner sc = new Scanner(System.in);
7
8         System.out.print("Ingresa el nombre del titular: ");
9         String titular = sc.nextLine();
10
11        System.out.print("Ingresa el saldo inicial: ");
12        double saldoInicial = sc.nextDouble();
13
14        CuentaBancaria cuenta = new CuentaBancaria(titular, saldoInicial);
15
16        System.out.print("Ingresa cantidad a depositar: ");
17        cuenta.depositar(sc.nextDouble());
18
19        System.out.print("Ingresa cantidad a retirar: ");
20        cuenta.retirar(sc.nextDouble());
21    }
22 }

```

--- Estado de la cuenta ---
Titular: jordy
Saldo final: 3050.0
PS C:\Users\25000\Documents\GitHub\POO-Git-Casos>

- Procedemos a guardar todo

```

OpenJDK version 11.0.16.1 2022-08-12 LTS
OpenJDK Runtime Environment Microsoft-40648 (build 11.0.16.1+1-LTS)
OpenJDK 64-Bit Server VM Microsoft-40648 (build 11.0.16.1+1-LTS, mixed mode)

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/GitHub/POO-Git-Casos (main)
$ git add .
git commit -m "Agregar casos 1, 2, 3, guía de Git y README"
git push origin main
[main 31ffefc] Agregar casos 1, 2, 3, guía de Git y README
 4 files changed, 154 insertions(+)
 create mode 100644 caso3/CuentaBancariaInteractiva.java
Enumerating objects: 16, done.
Counting objects: 100% (14/14), done.
Delta compression using up to 16 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (9/9), 1.94 KiB | 1.94 MiB/s, done.
Total 9 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/JORDY272025/PractSem1.git
 1cee971..31ffefc  main -> main

```

- GitHub web

The screenshot shows the GitHub web interface for the repository 'PractSem1' by user 'JORDY272025'. The file 'UsuarioSimple.java' is selected, showing its commit history and code. The commit message is 'Agregar casos 1, 2, 3, guía de Git y README' with hash '31ffefc' from 1 minute ago. The code is a Java class 'UsuarioSimple' with a 'main' method that uses 'Scanner' to take user input for name and age, and prints a greeting.

- Agregar el informe al repositorio final

```

jordy@DESKTOP-V2R04FK MINGW64 ~/Documents/GitHub/POO-Git-Casos (main)
$ git add Informe_Final.pdf

```

EVIDENCIAS:

GitHub: <https://github.com/JORDY272025>

Repositorio: <https://github.com/JORDY272025/POO-Git-Casos>